

UNITED STATES NAVAL OBSERVATORY
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U. S. Naval Observatory, Washington 25, D. C.

February 6, 1950

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

JANUARY - FEBRUARY, 1949

By Lucy T. Day

All measurements and spot counts were made at the Naval Observatory from plates secured either in Washington, or at Mt. Wilson. Difference in longitude is measured from the central meridian, positive toward the west; latitude is positive toward the north. Areas are corrected for foreshortening and expressed in millionths of the sun's hemisphere. For each date at the bottom of the columns headed: Mt. Wilson group number, difference in longitude, latitude, area of spot or group, and spot count are included respectively: number of groups, assumed longitude of the central meridian, assumed latitude of the center of the disk, total area of spots and groups, and total spot count. The date is expressed in Universal Time. The observatory at which the plate was secured and its quality are indicated directly below this date. (NO stands for U. S. Naval Observatory, MW for Mt. Wilson Observatory; and the symbols VG, G, F and P mean very good, good, fair and poor respectively.) Spots not assigned a number at Mt. Wilson are indicated by an asterisk. Corresponding data were published in the Monthly Weather Review from February 1927 to December 1947. Since December 31, 1947 they are published monthly in this series of circulars.

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic							Heliographic								
Date U. T.	Mount Wilson group No.	Dif- ference in longi- tude °	Lat- itude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U. T.	Mour. Wilson group No.	Dif- ference in longi- tude °	Lat- itude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count		
Jan.		°	°	°			Jan.		°	°	°				
1.659	9585	-63	- 7	63	48	3		9588	-40	+ 6	42	97	1		
MW-G	9580	-19	+10	23	170	2		9586	-43	- 6	43	194	1		
	9580	-17	+10	22	12	5		9585	- 9	-11	12	12	1		
	9579	- 7	-12	11	24	3		9580	+35	+11	38	121	1		
	9577	- 6	+ 9	13	12	5		9575	+81	- 5	81	194	1		
	9575	+20	- 5	20	73	3		(7)	(280)	(-4)		1,042	9		
	9575	+21	-10	22	24	6									
	9575	+27	- 5	27	121	14		6.658	9594	-80	-17	80	97	1	
	9575	+28	- 7	29	194	7		NO-G	9593	-51	-15	52	24	2	
	9576	+25	+ 9	28	291	5			9589	-50	-10	50	194	2	
	9572	+42	-17	44	242	1			9589	-47	- 7	47	97	2	
	(7)	(333)	(-3)		1,211	54			9591	-41	- 7	41	48	2	
									9586	-29	- 6	29	194	1	
2.747	9585	-51	- 7	51	36	1			9588	-29	+ 7	31	24	2	
MW-P	9580	- 7	+11	15	121	2			9588	-24	+ 5	26	73	2	
	9579	+ 7	-12	11	73	2			9592	-18	+ 8	22	12	1	
	9576	+35	+12	38	48	1			9580	+49	+10	51	61	1	
	9576	+39	+10	40	291	4			9579	+67	-13	67	24	1	
	9575	+40	- 5	40	97	10			(9)	(267)	(-4)		848	17	
	9575	+41	- 6	41	242	6									
	9572	+52	-18	54	48	2		7.662	9595	-75	-10	75	12	1	
	9572	+55	-17	57	242	2		NO-F	9594	-67	-17	67	121	1	
	(6)	(319)	(-3)		1,198	30			9593	-40	-15	41	24	2	
									9593	-35	-15	37	12	1	
3.647	9586	-69	- 6	69	194	2			9589	-37	-10	38	194	1	
NO-G	9588	-68	+ 7	69	24	2			9589	-33	- 8	33	97	6	
	9585	-39	- 7	39	12	1			9591	-27	- 7	28	73	3	
	9580	+ 8	+12	16	145	1			9586	-19	- 8	20	12	2	
	9580	+10	+14	20	24	7			9586	-16	- 7	17	194	2	
	(*)	+19	-12	21	36	1			9586	-15	- 5	15	12	2	
	(*)	+21	-12	23	24	6			9588	-18	+ 7	22	48	6	
	9576	+51	+10	53	97	6			9588	-13	+ 7	17	12	3	
	9576	+55	+10	57	145	4			9588	-10	+ 3	12	61	1	
	9575	+54	- 7	54	145	1			9592	- 6	+ 8	13	12	1	
	9575	+56	- 6	56	121	12			9580	+55	+ 6	56	12	2	
	9572	+68	-18	69	242	1			9580	+61	+11	63	48	1	
	9572	+70	-19	72	24	3			(9)	(254)	(-4)		944	35	
	(8)	(307)	(-3)		1,233	47									
								8.699	9595	-65	-11	65	24	1	
4.626	9589	-78	- 9	78	291	1		NO-F	9595	-62	-10	62	121	7	
NO-F	9586	-56	- 6	56	242	1			9594	-54	-17	55	170	1	
	9588	-55	+ 7	57	73	1			9593	-26	-15	28	61	4	
	9585	-26	- 7	27	12	2			9593	-21	-15	23	97	3	
	9585	-26	-10	27	12	1			9589	-22	-10	23	194	1	
	9580	+21	+11	25	145	1			9589	-20	- 8	21	145	1	
	9576	+63	+11	65	97	1			9597	-18	- 9	19	97	4	
	9576	+67	+10	68	194	1			9591	-12	- 7	12	73	2	
	9575	+68	- 6	68	242	4			9586	- 2	- 6	3	170	3	
	9572	+81	-18	81	242	1			9588	+ 4	+ 6	12	24	4	
	(8)	(294)	(-3)		1,550	14			9588	+ 4	+ 3	8	48	1	
									9580	+75	+12	77	97	1	
									(9)	(241)	(-4)		1,321	33	
5.664	9589	-63	- 9	63	242	1									
MW-P	9589	-61	- 7	61	97	1			9.720	9598	-80	-14	80	97	1
	9591	-55	- 7	55	73	1		NO-G	9598	-76	-13	76	48	1	
	9588	-45	+ 5	46	12	1									

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

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Heliographic							Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Jan.							Jan.						
	9595	-51	-12	51	24	1		9602	-55	+18	59	16	6
	9595	-49	-11	49	42	1		9601	-52	+26	58	48	4
	9595	-47	-10	47	48	1		9599	-47	+15	51	97	3
	9594	-40	-17	42	97	1		9599	-43	+17	47	145	15
	9593	-11	-15	16	97	9		9598	-25	-15	26	24	5
	9593	-7	-15	13	145	2		9598	-21	-12	22	24	10
	9589	-9	-10	11	194	1		(*)	-1	+19	23	12	2
	9597	-5	-8	7	61	3		9594	+12	-18	19	121	1
	(*)	0	+20	24	6	1		9600	+39	-7	39	24	1
	9591	+1	-8	4	61	3		9593	+41	-16	43	48	1
	9588	+9	+6	14	24	2		9593	+44	-16	46	145	6
	9588	+19	+3	21	48	1		9589	+44	-10	44	145	1
	9586	+11	-7	12	121	3		9586	+65	-7	65	97	1
	(*)	+47	-7	47	12	2		(12)	(175)	(-4)		1,722	58
	(11)	(227)	(-4)		1,325	33							
10.694 NO-F	9598	-68	-14	68	36	1	14.688 NO-F	9604	-71	-7	71	73	1
	9598	-64	-13	64	36	4		9604	-70	-8	70	48	2
	9595	-37	-11	38	218	10		9603	-69	-11	69	630	1
	9594	-28	-17	29	170	1		9602	-40	+18	46	12	3
	9593	+1	-15	12	170	7		9601	-39	+24	46	36	7
	9593	+6	-15	13	194	8		9599	-34	+15	39	61	8
	9589	+3	-10	6	194	1		9599	-30	+17	36	97	12
	9597	+5	-8	7	48	8		9599	-29	+13	33	12	1
	9591	+14	-8	15	61	2		9598	-11	-15	16	12	1
	9586	+24	-7	25	121	1		(*)	-11	+11	19	24	10
	9588	+31	+3	32	48	1		9594	+25	-19	29	97	1
	(9)	(214)	(-4)		1,296	44		9605	+30	-13	32	97	6
11.696 NO-F	9599	-73	+17	76	339	13		9600	+52	-7	52	24	8
	9598	-54	-14	55	24	2		9589	+57	-10	57	145	1
	9598	-51	-13	51	36	1		9589	+53	-10	53	12	4
	9595	-23	-11	24	109	10		9593	+57	-17	58	73	11
	9594	-14	-18	21	145	1		9586	+78	-7	78	97	3
	9593	+14	-16	19	145	12		(13)	(162)	(-4)		1,550	80
	9593	+18	-16	22	218	6	15.783 NO-P	9607	-58	+17	61	36	5
	9589	+17	-10	18	194	1		9604	-56	-7	56	121	1
	9597	+19	-8	20	24	4		9603	-54	-11	54	582	1
	9591	+28	-8	27	24	1		9601	-23	+22	33	145	4
	9586	+38	-7	38	97	1		9599	-19	+13	25	24	1
	9588	+45	+3	46	24	1		9599	-15	+16	26	315	15
	(10)	(201)	(-4)		1,379	53		9606	-6	-17	16	121	4
12.737 NO-F	9599	-61	+15	64	194	1		9598	+4	-15	12	48	3
	9599	-58	+17	61	291	10		9594	+39	-20	42	85	1
	9598	-35	-12	36	12	1		9605	+42	-13	43	48	1
	9594	0	-18	14	109	1		9605	+46	-12	46	48	1
	9593	+29	-16	32	145	5		9589	+70	-10	70	145	1
	9593	+31	-16	33	158	3		(10)	(147)	(-4)		1,718	38
	9589	+31	-10	32	194	1	16.805 MW-P	9609	-77	+25	80	873	1
	9586	+52	-7	52	121	1		9607	-49	+16	53	73	8
	9588	+59	+3	59	48	1		9607	-42	+16	46	36	2
	(7)	(187)	(-4)		1,272	24		9604	-42	-7	42	145	1
13.704 NO-G	9604	-85	-7	85	97	1		9603	-40	-11	41	582	1
	9603	-80	-11	80	679	1		9608	-19	-19	23	24	2
								9601	-10	+22	28	194	2
								9599	-7	+13	19	48	3

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic							Heliographic						
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lat- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Jan.							Jan.						
	9599	-3	+16	21	388	12	22.663	9611	-23	+17	32	121	5
	9606	+12	-18	18	145	9	NO-G	9610	-10	+17	23	48	2
	9606	+18	-18	23	97	1		9609	-9	+27	33	824	7
	9594	+52	-20	54	73	1		9609	+2	+23	28	1,454	8
	9605	+59	-12	59	48	3		9613	-1	+17	22	97	12
	(10)	(134)	(-5)		2,726	46		9612	+4	-12	7	36	2
								9612	+8	-11	11	24	4
17.830	9610	-76	+18	78	97	2		9603	+36	-13	37	6	1
MW-F	9609	-75	+26	79	679	1		9603	+36	-12	39	485	2
	9609	-63	+24	68	1,697	3		9604	+38	-8	38	48	1
	9607	-37	+15	42	48	4		9608	+61	-17	62	61	4
	9604	-28	-7	28	97	1		(8)	(57)	(-5)		3,204	48
	9603	-27	-12	29	582	4							
	9608	-4	-18	15	97	11	24.837	9611	+6	+17	23	97	6
	9601	+3	+22	26	61	5	NO-VP	9610	+17	+16	28	24	2
	9599	+8	+20	26	48	4		9609	+17	+27	36	679	2
	9599	+12	+15	23	194	8		9609	+29	+23	40	1,115	4
	9599	+14	+13	23	145	6		9613	+28	+17	36	194	5
	9606	+26	-19	30	339	9		9603	+65	-12	65	339	1
	9594	+66	-20	67	73	1		(5)	(28)	(-5)		2,448	20
	9605	+75	-13	76	24	4							
	(11)	(120)	(-5)		4,181	63	27.917	9618	-75	-8	75	218	3
18.744	9611	-78	+17	80	388	3	MW-F	9617	-59	+13	63	36	2
NO-F	9610	-62	+18	66	145	2		9616	-49	-3	50	436	1
	9609	-62	+27	68	873	5		9614	+35	+23	45	73	4
	9609	-49	+24	56	1,794	14		9614	+39	+22	48	48	6
	9607	-24	+16	32	121	4		9609	+57	+27	67	533	8
	9604	-15	-6	15	73	1		9609	+71	+22	76	1,261	5
	9603	-13	-11	14	630	5		9613	+69	+16	73	24	1
	9608	+8	-18	16	145	9		9613	+73	+15	76	194	3
	9601	+15	+22	30	48	3		(6)	(347)	(-6)		2,823	33
	9601	+20	+18	31	48	4							
	9599	+23	+14	30	48	9	28.751	9618	-66	-8	66	24	2
	9599	+26	+15	33	291	9	NO-F	9618	-65	-7	65	194	4
	9606	+34	-17	36	194	8		9618	-60	-8	60	242	5
	9606	+36	-20	39	48	1		9617	-46	+12	51	24	1
	9606	+40	-16	42	194	4		9616	-41	-2	42	24	1
	9594	+80	-20	80	48	1		9616	-37	-3	38	485	1
	(11)	(108)	(-5)		5,088	82		9616	-37	-7	37	12	5
								9616	-25	-4	26	6	1
20.792	9611	-48	+17	53	170	1		9619	-15	-9	16	24	2
NO-F	9609	-35	+27	47	824	5		9619	-2	-4	2	24	3
	9609	-22	+23	35	1,697	10		9609	+65	+24	73	291	1
	9610	-34	+17	41	73	1		9609	+66	+27	76	48	4
	9612	-22	-12	23	48	1		9609	+69	+24	76	97	2
	9612	-19	-11	21	24	2		9609	+86	+22	86	388	1
	9603	+6	-15	12	121	4		9609	+88	+19	88	582	1
	9603	+13	-12	15	533	4		(5)	(336)	(-6)		2,465	34
	9604	+12	-7	13	73	1							
	9608	+35	-17	37	170	7	29.791	9621	-86	+6	87	485	2
	9599	+54	+12	57	194	2	MW-P	9618	-50	-8	50	121	4
	9606	+65	-17	66	776	7		9618	-45	-7	45	145	2
	(9)	(81)	(-5)		4,703	45		9616	-23	-3	24	485	1
								9619	-3	-10	4	48	2
								9619	+1	-9	3	36	4

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

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Date U.T.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- ference in longi- tude °	Lati- tude °			
Jan.						
	9614	+59	+23	66	73	2
	(5)	(323)	(-6)		1,393	17
30.747	9622	-77	-10	77	194	2
MW-F	9622	-72	-9	72	97	1
	9621	-70	+5	73	679	5
	9618	-37	-8	37	194	15
	9618	-32	-8	32	145	5
	9616	-9	-3	10	485	7
	9619	+11	-11	12	61	8
	9614	+72	+24	78	73	4
	(6)	(310)	(-6)		1,928	47
31.787	9622	-69	-9	69	97	2
NO-F	9622	-61	-8	61	582	9
	9621	-59	+7	62	388	14
	9621	-55	+5	58	291	1
	9618	-25	-9	25	145	7
	9618	-20	-8	20	485	15
	9625	-6	-15	11	24	1
	9616	+1	-9	3	24	8
	9616	+3	-5	3	242	2
	9616	+7	-5	7	242	7
	9619	+23	-11	24	48	3
	9619	+27	-9	27	24	2
	9624	+35	+27	49	48	3
	9623	+54	+27	65	12	1
	(8)	(297)	(-6)		2,652	75

Mean daily area for 26 days = 2,047
 Mean 10 g's for 26 days = 125.7

Feb.						
1.643	9626	-80	+8	82	12	1
NO-VG	9626	-79	+11	80	12	1
	9622	-58	-9	58	73	5
	9622	-52	-9	52	582	9
	9622	-48	-9	48	388	6
	9621	-47	+8	50	242	11
	9621	-45	+6	47	194	13
	9621	-43	+4	45	339	3
	9618	-12	-10	13	194	11
	9618	-8	-8	9	388	18
	9625	+6	-16	12	24	6
	9616	+15	-5	15	194	9
	9616	+17	-6	17	73	9
	9616	+19	-5	19	145	1
	9619	+35	-12	35	12	2
	9619	+40	-10	40	24	3
	9624	+47	+26	58	73	9
	9623	+67	+27	75	6	1
	(9)	(285)	(-6)		2,975	118

Date U.T.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- ference in longi- tude °	Lati- tude °			
Feb.						
2.640	9626	-67	+9	70	24	1
NO-G	9626	-64	+11	67	73	1
	9622	-46	-8	46	48	4
	9622	-37	-8	37	824	17
	9622	-34	-9	34	630	1
	9630	-36	+8	40	291	11
	9621	-32	+6	35	109	7
	9621	-29	+4	31	339	1
	9621	-28	+3	30	73	1
	9618	-1	-10	4	73	6
	9618	+5	-9	5	582	8
	9618	+8	-8	8	12	1
	9628	+19	+11	25	97	15
	9616	+27	-6	27	121	10
	9616	+29	-7	29	24	6
	9616	+32	-6	32	170	1
	9627	+40	-5	40	61	4
	9619	+53	-11	53	24	6
	9624	+58	+26	68	12	3
	(10)	(272)	(-6)		3,587	104
3.637	9632	-80	-1	80	242	2
NO-G	9632	-71	-1	71	194	2
	9626	-48	+11	52	97	1
	9622	-32	-9	32	48	4
	9622	-27	-9	27	630	12
	9622	-19	-8	19	873	1
	9630	-22	+8	27	145	8
	9621	-18	+6	23	48	9
	9621	-15	+5	20	315	1
	9621	-13	+2	16	145	1
	9618	+11	-10	12	48	1
	9618	+17	-9	17	582	14
	9628	+33	+12	37	73	15
	9628	+35	+11	40	145	1
	9616	+40	-7	40	61	6
	9616	+48	-5	49	109	1
	9627	+53	-5	54	36	1
	9627	+58	-5	59	48	1
	(9)	(259)	(-6)		3,839	81
4.729	9632	-67	-1	68	194	5
NO-G	9632	-59	0	60	12	1
	9632	-58	-1	59	194	2
	9626	-34	+11	39	61	1
	9622	-18	-10	18	145	4
	9622	-12	-9	13	679	6
	9622	-8	-9	9	291	7
	9622	-4	-10	5	776	1
	9630	-7	+8	17	97	4
	9621	-3	+6	13	61	6
	9621	0	+4	10	339	9
	9618	+27	-10	27	48	4
	9618	+32	-9	32	436	8
	9628	+50	+10	53	97	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Date U.T.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- ference in longi- tude °	Lati- tude °			
Feb.						
	9616	+54	-6	54	24	1
	9616	+62	-5	62	61	1
	9627	+67	-5	67	73	2
	9627	+71	-5	71	48	1
	(9)	(245)	(-6)		3,636	64
5.760 NO-F	9635	-83	-15	83	291	1
	9634	-75	+19	78	145	2
	9632	-52	-1	53	145	6
	9632	-46	-1	48	12	2
	9632	-42	-1	43	194	2
	9633	-44	+18	51	48	2
	9626	-21	+11	27	61	1
	9629	-20	-10	20	145	8
	9622	-5	-10	6	121	3
	9622	+1	-10	4	582	6
	9622	+5	-9	5	339	10
	9622	+9	-10	10	1,115	1
	9630	+8	+8	17	73	3
	9621	+13	+5	18	485	15
	9618	+40	-8	40	48	4
	9618	+47	-8	47	436	15
	9628	+64	+10	67	97	4
	9616	+75	-5	75	97	3
	(12)	(231)	(-6)		4,434	88
6.826 NO-VG	9635	-85	-19	85	24	2
	9635	-80	-18	80	97	2
	9635	-75	-15	75	121	2
	9635	-69	-14	69	242	2
	9639	-70	+15	76	24	1
	9634	-64	+19	69	16	2
	9634	-59	+19	67	145	4
	(*)	-52	-2	53	6	2
	9632	-36	-1	38	61	8
	9632	-30	0	32	12	4
	9632	-28	-1	30	267	1
	9633	-30	+19	40	97	10
	9631	-22	-10	22	24	5
	9626	-7	+10	17	48	1
	9629	-7	-11	8	194	20
	9629	-1	-11	5	24	3
	9622	+11	-11	12	97	4
	9622	+15	-10	16	727	30
	9622	+24	-10	24	1,261	1
	9630	+20	+10	27	24	12
	9630	+22	+8	26	73	7
	9621	+27	+4	30	97	12
	9621	+31	+5	33	291	14
	9618	+55	-11	55	12	1
	9618	+60	-8	60	339	17
	9628	+80	+10	82	97	1
	(14)	(217)	(-6)		4,420	168
7.675 NO-G	9640	-80	-14	80	145	1
	9635	-68	-18	69	48	2
	9635	-62	-15	62	97	4

Date U.T.	Mount Wilson group No.	Heliographic		Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
		Dif- ference in longi- tude °	Lati- tude °			
Feb.						
	9635	-56	-14	56	242	6
	9639	-59	+14	64	48	1
	9634	-51	+18	58	12	2
	9634	-48	+19	56	97	3
	9632	-23	-1	24	24	5
	9632	-18	+1	20	12	6
	9632	-14	0	15	267	1
	9633	-19	+19	32	24	18
	9631	-14	-10	15	12	1
	9631	-9	-9	10	12	2
	9626	+5	+10	17	48	1
	9629	+6	-12	7	242	24
	9629	+12	-11	12	97	1
	9622	+21	-10	21	97	5
	9622	+28	-10	28	582	25
	9622	+36	-10	36	1,261	11
	9636	+30	+26	45	12	5
	9630	+32	+8	35	97	9
	9621	+40	+4	43	218	10
	9618	+73	-9	73	242	10
	(14)	(206)	(-6)		3,936	153
8.660 NO-G	9642	-77	-14	78	61	8
	9640	-67	-14	67	145	1
	9635	-55	-19	55	48	6
	9635	-48	-16	48	73	5
	9635	-43	-15	43	194	4
	9639	-46	+13	50	12	2
	9634	-37	+20	46	12	3
	9634	-35	+19	44	145	1
	9638	-32	-15	33	48	2
	9637	-15	-19	20	12	2
	9632	-9	-1	12	12	2
	9632	-2	0	7	6	1
	9632	-1	-1	6	291	1
	9633	-9	+18	29	24	8
	9633	-3	+16	23	97	9
	9631	-2	-11	5	12	1
	9631	+4	-10	4	36	10
	(*)	+11	+6	17	6	1
	9629	+17	-12	17	97	11
	9629	+23	-12	24	97	12
	9626	+18	+9	24	36	4
	9622	+34	-11	34	97	4
	9622	+41	-10	41	533	28
	9622	+48	-10	48	1,212	1
	9630	+45	+8	48	48	1
	9621	+51	+5	53	6	4
	9621	+55	+5	57	97	6
	(16)	(193)	(-7)		3,457	138
9.707 NO-G	9642	-65	-14	65	291	11
	9642	-59	-14	59	12	2
	9640	-53	-14	53	170	1
	9635	-33	-16	35	48	5
	9635	-40	-19	41	24	8
	9635	-29	-12	29	48	6

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

7

Heliographic							Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count	Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Feb.							Feb.						
	9635	-28	-15	30	194	2		9640	-24	-18	26	12	6
	9639	-32	+15	37	24	4		9639	-10	+13	23	48	8
	9634	-22	+19	33	97	1		9643	-10	+18	27	48	8
	9638	-21	-14	23	6	1		9643	-7	+16	25	61	1
	9638	-18	-17	22	36	4		9635	-9	-18	15	24	6
	9632	+7	-1	10	12	4		9635	-4	-12	6	24	11
	9632	+11	0	14	291	1		9635	-2	-16	10	145	3
	9633	+10	+17	26	61	10		9638	+10	-17	14	36	2
	9631	+13	-11	14	24	5		9644	+23	+8	28	97	11
	9631	+21	-11	21	6	1		9644	+27	+10	32	194	1
	9626	+31	+9	35	24	1		9632	+38	-1	39	242	1
	9629	+33	-13	34	145	11		9633	+40	+16	46	12	2
	9622	+47	-11	47	97	3		9631	+46	-11	46	73	6
	9622	+53	-12	53	533	16		9626	+59	+10	61	12	1
	9622	+61	-10	61	1,212	3		9622	+75	-11	75	48	1
	9636	+57	+26	65	6	1		9622	+80	-10	80	194	1
	9636	+61	+25	67	6	1		9622	+85	-9	85	485	3
	9630	+58	+8	60	48	1			(16)	(154)	(-7)	3,219	121
	9621	+70	+7	71	12	1							
	(15)	(179)	(-7)		3,427	104							
10.740	9646	-80	+14	82	145	1	12.685	9648	-60	-13	60	145	1
MW-F	9645	-74	-6	75	73	1	NO-F	9648	-54	-12	54	194	1
	9642	-53	-14	53	242	10		9646	-53	+15	58	194	1
	9642	-49	-14	49	145	1		9646	-49	+16	54	145	5
	9640	-38	-15	38	121	1		9646	-43	+15	48	339	1
	9639	-22	+14	29	12	3		9642	-27	-15	28	194	7
	9639	-18	+14	28	24	1		9642	-20	-15	22	242	1
	9635	-20	-16	22	97	7		9640	-11	-15	13	97	1
	9635	-15	-15	17	194	4		9641	-12	+19	28	48	1
	9643	-20	+16	30	61	4		9643	+3	+12	19	24	2
	9634	-9	+19	28	61	3		9643	+4	+18	26	36	3
	9638	-4	-17	11	61	3		9643	+7	+13	22	194	6
	9644	+11	+7	17	73	2		9635	+11	-15	14	97	2
	9644	+14	+9	21	97	5		9638	+24	-17	26	24	2
	9631	+24	-11	25	48	2		9644	+37	+7	40	12	1
	9632	+25	-1	26	291	1		9644	+41	+9	44	218	4
	9633	+27	+17	37	48	3		9632	+52	-1	52	242	1
	9629	+45	-13	45	24	5		9631	+59	-11	59	36	3
	9629	+51	-12	51	48	1		9631	+61	-12	61	218	1
	9626	+46	+9	48	24	1		(11)	(140)	(-7)	2,699	44	
	9622	+61	-11	61	73	1							
	9622	+67	-11	67	242	1	14.707	9656	-82	-16	82	109	2
	9622	+75	-10	75	1,067	5	NO-G	9655	-72	+17	76	97	1
	9630	+73	+8	74	24	1		9654	-60	+24	66	582	1
	(17)	(165)	(-7)		3,295	67		9653	-42	-10	42	24	1
								9648	-32	-12	32	48	5
11.637	9648	-73	-13	73	145	1		9648	-27	-11	27	145	6
NO-G	9648	-70	-13	70	48	1		9648	-23	-11	23	170	1
	9648	-61	-13	61	12	1		9646	-27	+15	35	194	5
	9646	-68	+15	71	339	1		9646	-22	+15	31	242	12
	9646	-64	+15	68	242	12		9646	-16	+15	28	533	2
	9645	-60	-6	60	24	1		9651	-9	+15	24	12	4
	9642	-39	-16	40	485	30		9650	+1	-8	1	24	6
	9641	-27	+19	38	24	1		9642	+2	-16	9	145	12
	9640	-24	-16	25	145	1		9642	+7	-16	12	194	1
								9640	+17	-17	21	121	1
								9643	+35	+14	41	73	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Feb.						
	9635	+38	-15	38	121	6
	9649	+42	+5	44	145	4
	9644	+65	+8	68	97	7
	9644	+71	+9	73	145	1
	9632	+80	-1	80	242	1
	9631	+83	-12	83	145	2
	(16)	(113)	(-7)		3,608	82
15.631 NO-G	9656	-76	-15	76	388	9
	9656	-69	-16	69	582	17
	9657	-74	+17	77	48	2
	9655	-58	+17	62	73	3
	9654	-47	+24	56	582	5
	9653	-30	-9	30	24	3
	9648	-19	-12	20	97	10
	9648	-13	-11	14	97	12
	9648	-9	-10	10	121	1
	9646	-15	+16	28	145	1
	9646	-10	+15	25	242	15
	9646	-4	+15	24	485	7
	9652	-7	-15	11	24	14
	9642	+11	-15	14	48	12
	9642	+17	-14	19	242	13
	9650	+13	-8	13	36	9
	9640	+28	-16	29	97	1
	9643	+47	+15	52	48	1
	9649	+50	+5	52	48	5
	9649	+55	+5	57	121	3
	9635	+51	-15	51	339	25
	9644	+78	+8	79	73	2
	9644	+84	+9	85	97	3
	(15)	(101)	(-7)		4,057	173
16.663 MW-VG	9656	-63	-15	63	291	20
	9656	-56	-16	56	485	8
	9657	-61	+17	65	24	2
	9655	-44	+17	50	97	1
	9654	-36	+21	45	97	5
	9654	-35	+24	46	679	1
	9658	-27	-15	28	12	1
	9648	-7	-12	9	97	9
	9648	-2	-11	4	339	23
	9648	+3	-10	4	145	1
	9646	+1	+15	22	291	25
	9646	+8	+15	24	436	9
	9652	+6	-15	11	48	10
	9642	+27	-15	29	48	15
	9642	+31	-15	32	242	4
	9650	+28	-8	28	12	4
	9640	+41	-16	42	97	1
	9643	+63	+15	67	24	2
	9649	+64	+5	66	48	4
	9649	+70	+5	70	73	3
	9635	+66	-15	66	339	15
	(14)	(87)	(-7)		3,924	163

Heliographic						
Date U.T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Feb.						
17.653 NO-G	9661	-57	+13	60	12	1
	9660	-55	-21	56	6	1
	9656	-49	-15	49	218	8
	9656	-40	-16	40	533	1
	9657	-47	+17	52	48	1
	9657	-44	+18	50	24	1
	9655	-29	+17	38	61	1
	9654	-24	+22	36	48	6
	9654	-21	+23	35	630	1
	9659	-19	+21	34	48	6
	9648	+7	-13	10	267	3
	9648	+14	-11	14	339	12
	9648	+19	-10	19	194	2
	9646	+15	+17	29	194	11
	9646	+22	+16	32	533	3
	9650	+41	-8	41	12	3
	9642	+41	-14	41	24	7
	9642	+43	-15	43	218	1
	9640	+54	-15	54	73	1
	9635	+79	-15	79	291	6
	(13)	(74)	(-7)		3,773	76
18.643 NO-G	9661	-43	+13	48	48	5
	9660	-42	-26	43	61	6
	9656	-37	-17	38	170	1
	9656	-36	-17	37	24	5
	9656	-28	-18	30	582	1
	9657	-32	+18	40	16	4
	9655	-17	+16	30	73	2
	9654	-10	+23	32	97	6
	9654	-9	+22	31	582	1
	9659	-5	+20	28	145	2
	9658	-3	-14	8	24	4
	9648	+20	-15	22	242	1
	9648	+23	-12	24	388	11
	9648	+31	-11	31	388	4
	9646	+29	+16	37	97	15
	9646	+36	+14	42	388	4
	9642	+58	-15	58	194	1
	9640	+68	-15	69	97	1
	(12)	(61)	(-7)		3,616	74
19.690 MW-G	9662	-71	+9	72	194	1
	9664	-57	+30	66	12	2
	9661	-31	+13	37	12	5
	9661	-27	+13	34	48	8
	9660	-28	-25	33	73	10
	9656	-24	-18	26	582	1
	9656	-22	-17	24	194	30
	9655	-4	+16	24	194	9
	9654	+3	+23	30	97	6
	9654	+5	+22	30	582	1
	9659	+8	+20	28	194	5
	9658	+12	-14	13	24	7
	9648	+34	-15	35	242	1
	9648	+37	-12	37	339	33

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

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Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Feb.						
	9648	+45	-11	45	679	7
	9646	+40	+16	46	73	18
	9646	+48	+15	52	24	7
	9646	+50	+15	53	291	1
	9663	+61	+14	64	16	5
	9642	+71	-15	71	194	1
	9640	+82	-15	82	97	1
	(14)	(48)	(-7)		4,161	159
20.777 NO-VG	9662 (*)	-58	+ 9	60	145	2
		-34	-10	34	12	1
	9660	-17	-26	25	6	2
	9660	-11	-25	22	24	1
	9661	-10	+12	22	24	4
	9656	- 6	-17	12	242	21
	9656	- 1	-18	12	582	1
	9657	- 3	+17	25	12	2
	9655	+ 9	+16	26	48	8
	9655	+13	+16	27	61	1
	9654	+16	+22	32	145	17
	9654	+18	+22	35	582	1
	9659	+22	+20	34	145	15
	9659	+25	+19	35	12	1
	9665	+24	-20	27	61	8
	9648	+48	-15	48	194	1
	9648	+51	-12	51	194	8
	9648	+59	-10	59	24	5
	9648	+60	-11	60	679	1
	9646	+55	+15	59	12	2
	9646	+63	+14	67	291	1
	9663	+75	+14	77	97	1
	9642	+85	-15	85	194	1
	(14)	(33)	(-7)		3,786	105
21.761 MW-F	9662	-45	+ 9	47	145	1
	9660	0	-25	18	36	2
	9660	+ 2	-25	18	24	2
	9661	+ 2	+13	20	36	3
	9656	+ 5	-17	12	291	11
	9656	+11	-18	17	630	1
	9657	+11	+16	27	16	4
	9655	+21	+15	31	48	5
	9655	+26	+16	35	97	2
	9654	+28	+23	42	121	6
	9654	+30	+22	41	679	1
	9659	+33	+20	43	242	6
	9659	+38	+20	47	24	1
	9665	+37	-18	38	24	8
	9648	+61	-13	61	194	1
	9648	+65	-11	65	194	5
	9648	+75	-10	75	679	1
	9646	+68	+16	70	24	6
	9646	+77	+15	78	291	1
	(11)	(20)	(-7)		3,795	67

Heliographic						
Date U. T.	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	Spot count
Feb.						
22.708	9667	-78	+ 8	79	97	2
MW-F	9666	-37	-14	37	12	1
	9662	-32	+ 8	34	145	1
	9664	-12	+28	37	36	9
	9660	+14	-25	22	24	3
	9661	+15	+13	25	48	7
	9656	+18	-17	21	242	8
	9656	+22	-18	24	36	1
	9656	+25	-18	27	582	1
	9657	+27	+17	36	12	3
	9655	+34	+16	40	16	4
	9655	+41	+16	47	61	1
	9654	+42	+23	51	97	8
	9654	+44	+23	53	582	1
	9659	+48	+20	54	145	9
	9659	+52	+20	58	48	1
	9648	+73	-14	74	145	1
	9648	+85	-11	85	388	2
	(12)	(8)	(-7)		2,716	63
23.628	9667	-74	+ 6	75	339	6
NO-G	9667	-68	+ 8	70	436	5
	(*)	-32	+33	50	6	2
	9662	-19	+ 9	24	97	1
	9662	-13	+ 9	21	12	2
	9664	0	+27	35	24	8
	9668	+22	+21	35	12	3
	9661	+24	+13	31	12	2
	9660	+26	-24	30	16	5
	9656	+28	-20	31	24	2
	9656	+30	-18	32	170	12
	9656	+39	-18	40	533	1
	9657	+39	+16	44	97	1
	9657	+43	+15	48	12	2
	9655	+47	+15	52	12	3
	9655	+53	+15	58	73	1
	9654	+57	+22	62	679	1
	9659	+60	+20	64	291	7
	9659	+67	+20	70	97	2
	9648	+88	-15	88	97	1
	(13)	(356)	(-7)		3,039	67
24.719	9667	-60	+ 7	62	291	5
NO-G	9667	-60	+ 9	62	73	2
	9667	-53	+ 8	55	436	1
	9670	-37	+13	42	73	2
	9662	- 9	+11	21	48	2
	9662	- 5	+ 9	17	170	1
	9668	+36	+20	45	48	3
	9656	+42	-18	43	194	9
	9656	+45	-17	46	24	2
	9656	+50	-18	50	533	1
	9657	+51	+17	57	61	2
	9657	+55	+16	60	36	2
	9655	+66	+15	68	73	1

POSITIONS, AREAS, AND COUNTS OF SUNSPOTS

Date U.T.	Heliographic					Spot count
	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	
Feb.						
	9654	+69	+23	72	582	2
	9654	+74	+20	76	145	3
	(8)	(341)	(-7)		2,787	38
25.629 NO-G	9671	-88	-7	88	388	1
	9667	-49	+7	52	194	1
	9667	-43	+8	45	170	12
	9667	-39	+8	42	485	1
	9670	-23	+12	29	73	11
	9670	-19	+11	26	145	1
	9662	+3	+11	18	36	8
	9662	+8	+7	17	12	6
	9662	+9	+8	18	73	1
	9669	+12	+10	21	12	3
	9668	+50	+19	56	24	1
	9656	+57	-19	57	97	9
	9656	+62	-19	62	485	1
	9657	+70	+15	72	36	1
	9655	+80	+15	81	48	1
	9654	+82	+23	83	533	1
	9654	+85	+19	86	97	1
	(10)	(329)	(-7)		2,908	60
26.681 NO-F	9673	-75	+9	76	485	1
	9671	-74	-6	74	436	1
	9667	-34	+6	36	194	1
	9667	-27	+8	32	194	9
	9667	-22	+8	26	48	1
	9670	-9	+13	22	291	9
	9670	-5	+13	21	242	3
	9662	+23	+9	27	121	1
	9672	+40	+28	52	24	1
	9656	+75	-18	75	679	3
	(7)	(316)	(-7)		2,714	30

Date U.T.	Heliographic					Spot count
	Mount Wilson group No.	Dif- fer- ence in longi- tude °	Lati- tude °	Dis- tance from cen- ter of disk °	Area of spot or group	
Feb.						
27.835	9673	-60	+10	63	339	1
NO-P	9673	-58	+6	60	97	1
	9671	-59	-6	59	436	1
	9667	-19	+6	23	145	1
	9667	-17	+8	23	121	6
	9667	-11	+8	19	73	4
	9667	-8	+8	18	291	1
	9674	-8	+20	28	73	2
	9670	+4	+12	19	242	3
	9670	+9	+12	21	97	4
	9670	+12	+12	22	291	1
	9662	+38	+9	42	97	1
	(6)	(300)	(-7)		2,302	26
28.757	9677	-73	-17	74	97	1
NO-G	9673	-50	+10	52	291	1
	9673	-44	+6	47	73	3
	9671	-47	-6	47	291	2
	9671	-43	-5	43	36	1
	9675	-40	-11	40	24	2
	9667	-8	+5	15	194	1
	9667	-5	+8	17	97	4
	9667	+2	+9	17	48	1
	9667	+4	+8	17	388	2
	9674	+6	+20	27	73	6
	9670	+17	+12	26	388	6
	9670	+23	+11	29	339	2
	9670	+49	+8	51	48	1
	9662	+50	+9	52	73	1
	(8)	(288)	(-7)		2,460	34

Mean daily area for 27 days = 3,429
 Mean 10 g⁺s for 27 days = 211.7